Murfreesboro Stormwater Program Survey Questionnaire

1. Check box(es) that best describe you and your involvement with Murfreesboro's stormwater quality program.

	Response Percent	Response Count
Landowner	13.8%	4
Developer	17.2%	5
Engineer	**55.2%**	**16**
Architect	0.0%	0
Landscape Architect	6.9%	2
Contractor	13.8%	4
Vendor	3.4%	1
Educator	3.4%	1
Environmental advocate	10.3%	3
Elected/Appointed Official	3.4%	1
Plans Review/Approval Staff	3.4%	1
Concerned Citizen	17.2%	5
Other (please specify)	3.4%	1
	answered question	**29**
	skipped question	**1**

2. Check the actions with which you've been involved in the City of Murfreesboro, since the implementation of the post-construction performance standards in October of 2008. (Check all that apply.)

	Response Percent	Response Count
Submitted plans for Planning Commission approval	51.7%	15
Submitted detailed stormwater quality design for approval	55.2%	16
Met with staff to review stormwater quality design and/or staff comments	**58.6%**	**17**
Installed or constructed stormwater quality systems or elements	17.2%	5
Own or operate (or have in the past) a constructed stormwater quality treatment system	6.9%	2
Submitted comments regarding proposed water quality ordinances	37.9%	11
None of the above	10.3%	3
Other (please specify)		3
answered question		**29**
skipped question		**1**

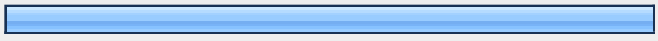
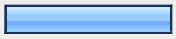
3. Have you used the city's web page(s) to learn about the stormwater program?

	Response Percent	Response Count
Yes	**96.0%**	**24**
No	4.0%	1
answered question		**25**
skipped question		**5**

4. Please rate the stormwater pages on the City's web site.

	Best	Good	Fair	Poor	Response Count
Accuracy of information	8.3% (2)	**75.0% (18)**	16.7% (4)	0.0% (0)	24
Timeliness (in contrast to late or outdated)	8.3% (2)	**75.0% (18)**	16.7% (4)	0.0% (0)	24
Ease of navigation, finding needed information	8.3% (2)	**70.8% (17)**	16.7% (4)	4.2% (1)	24
Comprehensiveness of information	13.0% (3)	**60.9% (14)**	17.4% (4)	8.7% (2)	23
				Other (please specify)	0
				answered question	**24**
				skipped question	**6**

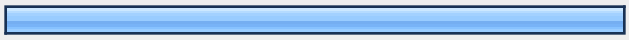
5. What other information would be useful to have posted on the web?

		Response Percent	Response Count
i.		**100.0%**	**4**
ii.		25.0%	1
iii.		0.0%	0
		answered question	**4**
		skipped question	**26**

6. If you are familiar with other communities' stormwater quality requirements, please comment on how Murfreesboro's post-construction requirements compare with those other requirements. (Otherwise, skip question or respond N/A.)

	Less	Same	More	N/A	Response Count
Clarity	**37.5% (6)**	25.0% (4)	25.0% (4)	12.5% (2)	16
Stormwater quality control standards (80% TSS, SPv, etc.)	0.0% (0)	**57.9% (11)**	31.6% (6)	10.5% (2)	19
Stormwater quantity control requirements (SPv, 2-, 10-year peak rate limits)	0.0% (0)	**55.6% (10)**	33.3% (6)	11.1% (2)	18
Cost to comply	5.6% (1)	**44.4% (8)**	38.9% (7)	11.1% (2)	18
Plans review process	11.8% (2)	**35.3% (6)**	**35.3% (6)**	17.6% (3)	17
City's review time	17.6% (3)	23.5% (4)	**41.2% (7)**	17.6% (3)	17
Administrative burden	11.8% (2)	17.6% (3)	**47.1% (8)**	23.5% (4)	17
				Other (please specify)	2
				answered question	**19**
				skipped question	**11**

7. Are you aware that the City of Murfreesboro has a monthly storm water user fee in place, affecting all properties except public right-of-way? On non-single family residential property, the rate is $3.25/month/3470 square feet impervious surface. Or, about $30/month/commercially developed acre.

		Response Percent	Response Count
Yes, I was aware of this.		**95.7%**	**22**
No, I did not know of this fee.		4.3%	1
		answered question	**23**
		skipped question	**7**

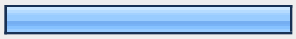
8. The installation of stormwater management controls that achieve the City's post-construction runoff control standards qualifies a development site for a ____% fee credit.

	Response Percent	Response Count
10%	4.8%	1
15%	14.3%	3
25%	0.0%	0
40%	19.0%	4
50%	14.3%	3
Don't know.	**47.6%**	**10**
	answered question	**21**
	skipped question	**9**

9. Are you familiar with the mechanism for applying for and obtaining a fee reduction for new development?

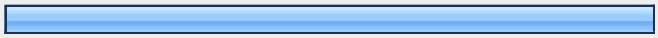
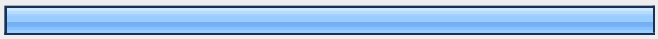
	Response Percent	Response Count
Yes	**59.1%**	**13**
No	13.6%	3
Unsure	27.3%	6
	answered question	**22**
	skipped question	**8**

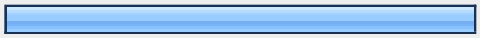
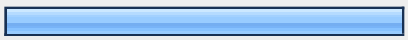
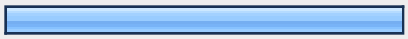
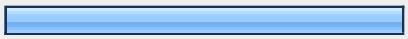
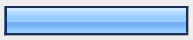
10. If you answered Yes to the above question, have you found that there is consistency between the city's post-construction standards and the associated fee credits?

		Response Percent	Response Count
Yes		**43.8%**	**7**
No		12.5%	2
N/A		**43.8%**	**7**
	answered question		**16**
	skipped question		**14**

11. If you have completed a Murfreesboro Stormwater Management Data Sheet (aka Fee Credit Worksheet) please comment on the clarity of the form and questions. Murfreesboro Stormwater Management Data Sheet

	Understandable	Needs clarification	Confusing	N/A	Rating Average	Response Count
Purpose of form	**66.7% (8)**	8.3% (1)	0.0% (0)	25.0% (3)	1.11	12
Project information	**66.7% (8)**	8.3% (1)	0.0% (0)	25.0% (3)	1.11	12
Runoff calculations & fee credits	**58.3% (7)**	16.7% (2)	0.0% (0)	25.0% (3)	1.22	12
Controls/Maintenance Plan	**50.0% (6)**	25.0% (3)	0.0% (0)	25.0% (3)	1.33	12
				Comments on Record Sheet		4
				answered question		**12**
				skipped question		**18**

12. Suggest changes to the worksheet if any you would recommend.			
		Response Percent	Response Count
i.		**100.0%**	**2**
ii.		**100.0%**	**2**
iii.		0.0%	0
	answered question		**2**
	skipped question		**28**

13. The mechanism(s) by which a new development obtains a fee credit are the following (check all that apply):			
		Response Percent	Response Count
Adequate design of system (as verified by approved plans)		**72.2%**	**13**
Adequate installation (as confirmed by engineer's certification of complete installation)		61.1%	11
Submission to the City of "Murfreesboro Stormwater Management Data Sheet."		61.1%	11
Submission to the City of a "Inspection and Maintenance Agreement" between the property owner and the City		61.1%	11
Analytical monitoring of stormwater discharges		5.6%	1
Don't know		27.8%	5
	answered question		**18**
	skipped question		**12**

14. The following have been considered as credit opportunities that might be added to the City's fee credit policy. Pl interests.

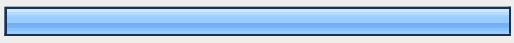
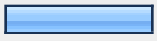
Rating

	Unimportant/non-issue	Minimal	Significant	Importa
Credit for extra tree planting	10.5% (2)	21.1% (4)	**31.6% (6)**	**31.6% (6**
Credit for rain barrels	5.3% (1)	**47.4% (9)**	21.1% (4)	26.3% (5
Credit for establishing/maintaining water quality buffers	0.0% (0)	0.0% (0)	**47.4% (9)**	26.3% (5
Credit for off-site/regional stormwater management	15.8% (3)	15.8% (3)	10.5% (2)	**47.4% (9**
Credit for implementing BMPs at commercial establishments	0.0% (0)	10.5% (2)	15.8% (3)	**36.8% (7**

15. How clear are the City's stormwater management plan requirements with respect to the following? Link to City Code (uncodified version) including stormwater management plan requirements

	Unclear (I have significant questions.)	Okay (I have minor questions)	Clear (No questions)	NA	Response Count
What elements are required in a plan	0.0% (0)	35.3% (6)	**52.9% (9)**	11.8% (2)	17
The format for submittal of plan	0.0% (0)	23.5% (4)	**64.7% (11)**	11.8% (2)	17
The plan review and approval process	5.9% (1)	29.4% (5)	**52.9% (9)**	11.8% (2)	17
Obtaining final construction document approval	11.8% (2)	23.5% (4)	**52.9% (9)**	11.8% (2)	17
Obtaining approvals of constructed systems	5.9% (1)	**52.9% (9)**	23.5% (4)	17.6% (3)	17
				Other (please specify)	1
				answered question	**17**
				skipped question	**13**

16. Have you used the Murfreesboro Stormwater Planning and Low Impact Design Guide and/or the Stormwater Controls Manual? (These are documents promulgated in 2007.) Web page with links to guide and manual

		Response Percent	Response Count
Yes		**77.8%**	**14**
No		22.2%	4
		answered question	**18**
		skipped question	**12**

17. How accurately do you believe the design methods provided in the city's technical design guidebook and controls manual model the stormwater control systems?

	+/- 100% or more	+/- 50%	+/- 25%	+/- 10%	N/A or don't know.	Response Count
As to the presumed levels of TSS reduction?	26.7% (4)	26.7% (4)	6.7% (1)	6.7% (1)	**33.3% (5)**	15
As to water volumes and rates for water-quality sized rain events?	26.7% (4)	**33.3% (5)**	6.7% (1)	0.0% (0)	**33.3% (5)**	15
As to water volumes and rates for the one year storm events?	**40.0% (6)**	20.0% (3)	0.0% (0)	6.7% (1)	33.3% (5)	15
For the 2 yr and 10 yr storm events?	**33.3% (5)**	20.0% (3)	0.0% (0)	13.3% (2)	**33.3% (5)**	15
					Provide additional comment or information.	4
					answered question	**15**
					skipped question	**15**

18. With respect to the above question, what errors do you believe are introduced?

		Response Percent	Response Count
i.		**100.0%**	**3**
ii.		0.0%	0
iii.		0.0%	0
		answered question	**3**
		skipped question	**27**

19. If you are familiar with other hydrologic models or stormwater control design methods, do you recommend the City consider using them as standard practice?

	Response Percent	Response Count
Yes	36.4%	4
No	**63.6%**	**7**
Other (please specify)		1
answered question		**11**
skipped question		**19**

20. Have you used technical or best management practice (BMP) guides from other communities to meet Murfreesboro's stormwater post-construction criteria?

	Response Percent	Response Count
Yes	**53.3%**	**8**
No	46.7%	7
Other (please specify ones you recommend)		1
answered question		**15**
skipped question		**15**

21. If you are familiar with other communities' stormwater standards, how would you compare the Murfreesboro performance criteria of 80% reduction of TSS and detention of the streambank protection volume to performance criteria of other communities? Inasmuch as different communities present different requirements, answer on an overall basis.

	Response Percent	Response Count
Murfreesboro is a lot less restrictive.	7.1%	1
Murfreesboro is a little less restrictive.	7.1%	1
Murfreesboro is about the same.	28.6%	4
Murfreesboro is a little more restrictive.	**42.9%**	**6**
Murfreesboro is a lot more restrictive.	14.3%	2
Other (please explain)	0.0%	0
	answered question	**14**
	skipped question	**16**

22. Is the processing of plans and design calculations in Murfreesboro straightforward?

	Response Percent	Response Count
Yes	**43.8%**	**7**
No	37.5%	6
N/A or Don't know.	18.8%	3
	Add comments if you like	2
	answered question	**16**
	skipped question	**14**

23. With respect to presenting stormwater quality and quantity calculations for review by the City (check all that apply):

	Response Percent	Response Count
The process is reasonable.	53.8%	7
The process is too rigorous.	15.4%	2
The process is not rigorous enough.	7.7%	1
I have been confused about what is required.	46.2%	6
I would like to see a template based on what the reviewer wants me to submit to the City.	**61.5%**	**8**
The process has been quicker than in other jurisdictions.	7.7%	1
Other (please specify)		3
answered question		**13**
skipped question		**17**

24. I would prefer / be opposed to / be neutral as to the use of a standard format (City defined) for reporting stormwater calculations.

	Response Percent	Response Count
prefer	**62.5%**	**10**
be opposed to	12.5%	2
be neutral as to	25.0%	4
Other (please specify)		4
answered question		**16**
skipped question		**14**

25. What control structures have you actually used or designed to meet Murfreesboro's post-construction requirements?

	Response Percent	Response Count
Biofiltration (underdrain)	37.5%	6
Bio retention/infiltration (no underdrain)	37.5%	6
Enhanced swale	25.0%	4
Infiltration trenches	25.0%	4
Porous pavement/paver systems	31.3%	5
Grass channels	**50.0%**	**8**
Filter strip	31.3%	5
Water re-use	6.3%	1
Wetlands	0.0%	0
Proprietary treatment vaults	25.0%	4
Proprietary filter units	0.0%	0
N/A	25.0%	4
Other (please specify)	6.3%	1
	answered question	**16**
	skipped question	**14**

26. What control structures would you prefer to use or favor to meet Murfreesboro's post-construction requirements? Select four or less.

	Response Percent	Response Count
Biofiltration (underdrain)	56.3%	9
Bio retention/infiltration (no underdrain)	50.0%	8
Enhanced swale	50.0%	8
Infiltration trenches	18.8%	3
Porous pavement/paver systems	**62.5%**	**10**
Grass channels	50.0%	8
Filter strip	18.8%	3
Water re-use	12.5%	2
Wetlands	6.3%	1
Proprietary treatment vaults	25.0%	4
Proprietary filter units	12.5%	2
Other (please specify)	12.5%	2
	answered question	**16**
	skipped question	**14**

27. Based on your experience, how would you rate different stormwater control systems with respect to their use or Murfreesboro.

Reliability

	Suspect	Acceptable	Good	Excellent
Biodetention (underdrain)	0.0% (0)	38.5% (5)	**53.8% (7)**	7.7% (1)
Bioinfiltration/rain garden (no underdrain)	7.7% (1)	**46.2% (6)**	**46.2% (6)**	0.0% (0)
Infiltration trench	16.7% (2)	**50.0% (6)**	25.0% (3)	0.0% (0)
Proprietary vault	0.0% (0)	27.3% (3)	**36.4% (4)**	**36.4% (4)**
Proprietary filter	0.0% (0)	**55.6% (5)**	11.1% (1)	33.3% (3)
Porous concrete	18.2% (2)	**36.4% (4)**	27.3% (3)	18.2% (2)
Porous pavers	9.1% (1)	27.3% (3)	9.1% (1)	**54.5% (6)**
Enhanced swales	8.3% (1)	8.3% (1)	**41.7% (5)**	**41.7% (5)**
Grass channels	8.3% (1)	16.7% (2)	**41.7% (5)**	33.3% (4)
Filter strip	0.0% (0)	36.4% (4)	**45.5% (5)**	18.2% (2)
Green roofs	20.0% (2)	**40.0% (4)**	20.0% (2)	20.0% (2)
Rain barrels and cisterns	9.1% (1)	**63.6% (7)**	27.3% (3)	0.0% (0)
Planter boxes	27.3% (3)	**36.4% (4)**	27.3% (3)	0.0% (0)
Water re-use	0.0% (0)	30.0% (3)	**40.0% (4)**	30.0% (3)
Wetlands	0.0% (0)	18.2% (2)	36.4% (4)	**45.5% (5)**

Cost (20 yr)

	Minor	Reasonable	High	Excessive
Biodetention (underdrain)	0.0% (0)	**61.5% (8)**	38.5% (5)	0.0% (0)
Bioinfiltration/rain garden (no underdrain)	7.7% (1)	**69.2% (9)**	23.1% (3)	0.0% (0)
Infiltration trench	0.0% (0)	**75.0% (9)**	8.3% (1)	0.0% (0)
Proprietary vault	0.0% (0)	27.3% (3)	**54.5% (6)**	18.2% (2)

Proprietary filter	0.0% (0)	30.0% (3)	30.0% (3)	**40.0% (4)**
Porous concrete	0.0% (0)	**41.7% (5)**	**41.7% (5)**	16.7% (2)
Porous pavers	0.0% (0)	45.5% (5)	**54.5% (6)**	0.0% (0)
Enhanced swales	8.3% (1)	**58.3% (7)**	33.3% (4)	0.0% (0)
Grass channels	**66.7% (8)**	25.0% (3)	8.3% (1)	0.0% (0)
Filter strip	36.4% (4)	**63.6% (7)**	0.0% (0)	0.0% (0)
Green roofs	0.0% (0)	20.0% (2)	**60.0% (6)**	10.0% (1)
Rain barrels and cisterns	36.4% (4)	**54.5% (6)**	0.0% (0)	0.0% (0)
Planter boxes	30.0% (3)	**60.0% (6)**	0.0% (0)	0.0% (0)
Water re-use	0.0% (0)	**40.0% (4)**	**40.0% (4)**	10.0% (1)
Wetlands	9.1% (1)	**36.4% (4)**	**36.4% (4)**	0.0% (0)

Aesthetics & Other

	Poor	Fair	Good	Very good
Biodetention (underdrain)	0.0% (0)	23.1% (3)	**46.2% (6)**	30.8% (4)
Bioinfiltration/rain garden (no underdrain)	0.0% (0)	**38.5% (5)**	23.1% (3)	**38.5% (5)**
Infiltration trench	0.0% (0)	**41.7% (5)**	**41.7% (5)**	8.3% (1)
Proprietary vault	0.0% (0)	**36.4% (4)**	27.3% (3)	**36.4% (4)**
Proprietary filter	0.0% (0)	**55.6% (5)**	11.1% (1)	33.3% (3)
Porous concrete	18.2% (2)	27.3% (3)	**45.5% (5)**	9.1% (1)
Porous pavers	0.0% (0)	9.1% (1)	**45.5% (5)**	**45.5% (5)**
Enhanced swales	0.0% (0)	8.3% (1)	**66.7% (8)**	25.0% (3)
Grass channels	0.0% (0)	8.3% (1)	**83.3% (10)**	8.3% (1)
Filter strip	0.0% (0)	27.3% (3)	**72.7% (8)**	0.0% (0)
Green roofs	0.0% (0)	30.0% (3)	**40.0% (4)**	30.0% (3)
Rain barrels and cisterns	9.1% (1)	**45.5% (5)**	**45.5% (5)**	0.0% (0)

Planter boxes	10.0% (1)	10.0% (1)	**50.0% (5)**	30.0% (3)	
Water re-use	0.0% (0)	30.0% (3)	**50.0% (5)**	20.0% (2)	
Wetlands	0.0% (0)	**36.4% (4)**	27.3% (3)	**36.4% (4)**	
					Oth
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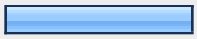
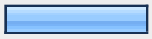
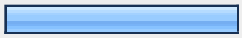
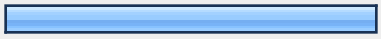
28. If you have been involved in preparing stormwater management operation and maintenance plans, what problems have arisen?

		Response Percent	Response Count
No problems		28.6%	4
I was not the right person to prepare the plan.		0.0%	0
Too many unknowns (who, what, when, how much?) to prepare a plan prior to opening the facility		21.4%	3
I would prefer a standard format rather than an outline.		35.7%	5
It is difficult or impossible to ensure the property manager will be knowledgeable about the plan and stormwater controls.		**57.1%**	**8**
I have not been involved.		7.1%	1
Other (please specify)		7.1%	1
		answered question	**14**
		skipped question	**16**

29. Have you read or signed a stormwater management Inspection and Maintenance Agreement for submittal to the City (MWSD)?

	Response Percent	Response Count
Yes	**56.3%**	**9**
No	43.8%	7
Unsure	0.0%	0
answered question		**16**
skipped question		**14**

30. If you have considered the Inspection and Maintenance Agreement, please comment on its use and what changes, if any, you would recommend to the agreement.

	Response Percent	Response Count
i.	**100.0%**	**3**
ii.	0.0%	0
iii.	0.0%	0
answered question		**3**
skipped question		**27**

31. Are the definition and criteria for water quality treatment volume (WQv) clear?

	Response Percent	Response Count
Yes	**93.3%**	**14**
No	6.7%	1
If not, please explain and/or offer suggestions:		1
answered question		**15**
skipped question		**15**

32. Does additional detail or information need to be provided for this water quality volume/TSS reduction performance standard?

	Response Percent	Response Count
Yes	20.0%	3
No	**40.0%**	**6**
Unsure	**40.0%**	**6**
If Yes, please describe needed improvement.		1
answered question		**15**
skipped question		**15**

33. Are the definition of streambank protection and the requirements clear?

	Response Percent	Response Count
Yes	**93.3%**	**14**
No	6.7%	1
If No, please briefly explain what additional clarification is needed.		1
answered question		**15**
skipped question		**15**

34. Are the detention and flood control requirements clearly defined?

	Response Percent	Response Count
Yes	**100.0%**	**14**
No	0.0%	0
If No, please briefly explain what additional clarification is needed.		2
answered question		**14**
skipped question		**16**

35. How many of the sites with which you've been involved with stormwater quality requirements have been less than two acres of impervious area (referred to as "small sites" in following questions)?

	Response Percent	Response Count
Less than 25%	**28.6%**	**4**
25-50%	21.4%	3
50-75%	21.4%	3
All my sites	14.3%	2
N/A	14.3%	2
answered question		**14**
skipped question		**16**

36. Have you reviewed the City's Low Impact Development (LID) design criteria for small sites? See this link and middle of page: http://www.murfreesborotn.gov/default.aspx?ekmenu=42&id=3774

	Response Percent	Response Count
Yes	**42.9%**	**6**
No	14.3%	2
Cursory review	**42.9%**	**6**
answered question		**14**
skipped question		**16**

37. If you've considered the LID/small site design option, do any of the LID design criteria cause you concern?

Degree of concern

	Not a concern	Minimal	Significant	Not practicable
Pervious paving in all parking stalls	**33.3% (3)**	22.2% (2)	**33.3% (3)**	11.1% (1)
Routing roof drains to pervious surfaces	**55.6% (5)**	44.4% (4)	0.0% (0)	0.0% (0)
Routing 1/3rd of parking to pervious area	**44.4% (4)**	33.3% (3)	22.2% (2)	0.0% (0)
Landscaping recessed as bioretention	22.2% (2)	**44.4% (4)**	33.3% (3)	0.0% (0)
Infiltration credit at fill sites	25.0% (2)	**75.0% (6)**	0.0% (0)	0.0% (0)
Discharge rate less than two cfs	22.2% (2)	**55.6% (5)**	22.2% (2)	0.0% (0)
Other (describe in comment field)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)

Reason for concern

	Not a concern	Cost	Design issues	Installation	Function/Reli
Pervious paving in all parking stalls	14.3% (1)	28.6% (2)	0.0% (0)	14.3% (1)	**42.9% (3**
Routing roof drains to pervious surfaces	**71.4% (5)**	0.0% (0)	14.3% (1)	0.0% (0)	14.3% (1
Routing 1/3rd of parking to pervious area	16.7% (1)	16.7% (1)	**33.3% (2)**	0.0% (0)	**33.3% (2**
Landscaping recessed as bioretention	0.0% (0)	0.0% (0)	28.6% (2)	0.0% (0)	**57.1% (4**
Infiltration credit at fill sites	**33.3% (2)**	0.0% (0)	**33.3% (2)**	16.7% (1)	16.7% (1
Discharge rate less than two cfs	25.0% (2)	0.0% (0)	**50.0% (4)**	25.0% (2)	0.0% (0)
Other (describe in comment field)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)

38. Have you used the performance criteria of discharging less than two cubic feet per second as a means to obtain the small site design alternative?

	Response Percent	Response Count
Yes	33.3%	4
No	**58.3%**	**7**
Was unaware of criteria	8.3%	1
answered question		**12**
skipped question		**18**

39. Do you consider the LID/small site design option to offer flexibility or to be a constraint?

	Response Percent	Response Count
Flexbility	38.5%	5
Constraint	15.4%	2
Unsure	**46.2%**	**6**
answered question		**13**
skipped question		**17**

40. Do other community's stormwater requirements have options with small sites that Murfreesboro should consider?

	Response Percent	Response Count
Yes	0.0%	0
No	28.6%	4
Unsure/don't know	**71.4%**	**10**
Please provide name of community if so and/or any other details (e.g., size)		0
answered question		**14**
skipped question		**16**

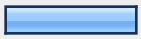
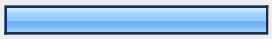
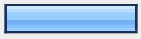
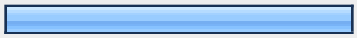
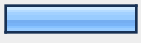
41. If you have reviewed the LID design criteria for small sites, please offer any other comments you have with respect to the concept and its usefulness.

	Response Count
	3
answered question	**3**
skipped question	**27**

42. With respect to infiltration-based controls (BMPs), do you agree that field tests should be a part of design and/or installation of such systems? Check all that apply.

	Response Percent	Response Count
Yes, necessary to design	38.5%	5
Yes, during installation	23.1%	3
No, design based on existing soil maps	15.4%	2
No, during installation	0.0%	0
Site-specific requirement/engineer's judgment	**61.5%**	**8**
Unsure	15.4%	2
Comments (e.g., type and scope of tests)		3
answered question		**13**
skipped question		**17**

43. Have you designed a treatment system using a proprietary treatment device?			
	Yes	**No**	**Response Count**
In Murfreesboro	**50.0% (6)**	**50.0% (6)**	12
In other communities	**69.2% (9)**	30.8% (4)	13
		Do you have comments as to why or why not?	1
		answered question	**14**
		skipped question	**16**

44. Do you have any requests or suggestions as far as the design and approval process for proprietary controls ? Yes, I recommend that the City of Murfreesboro (check all that apply):			
		Response Percent	**Response Count**
Adhere to the City's Controls Manual procedures		13.3%	2
Revise the design storm for flow-through devices		20.0%	3
Recognize wider range of treatment efficiencies, rather than only 50% or 80%		40.0%	6
Recognize gravity/hydrodynamic-type treatment units (vs. filter-type units) at 80% effectiveness		20.0%	3
Provide lists of treatment devices, efficiencies and design flows or volumes		**53.3%**	**8**
Adhere to/adopt Metro Nashville's standards		13.3%	2
Unsure/no comment		20.0%	3
Other (please specify)		13.3%	2
		answered question	**15**
		skipped question	**15**

45. As to proprietary control devices, are there factors that the City should consider that would potentially increase the use of these devices?

	Response Percent	Response Count
Yes	26.7%	4
No	6.7%	1
Unsure	**66.7%**	**10**
If so, please list factors.		4
answered question		**15**
skipped question		**15**

46. Optional information. Provide any or all. At a minimum we would like to have the State in which you reside.

	Response Percent	Response Count
Name:	50.0%	7
Company:	50.0%	7
Address:	28.6%	4
Address 2:	14.3%	2
City/Town:	50.0%	7
State:	**92.9%**	**13**
ZIP/Postal Code:	28.6%	4
Email Address:	35.7%	5
Phone Number:	35.7%	5
answered question		**14**
skipped question		**16**

47. Please use the space below for comments, questions, concerns or recommendations, either general or specific. In particular, use this space to address subject(s) that were not covered in the questions above.		
		Response Count
		4
	answered question	**4**
	skipped question	**26**